(PLACE 500' IN

ADVANCE OF GORE)

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

▼ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

(PLACE 1000' IN

ADVANCE OF GORE

X X X X REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

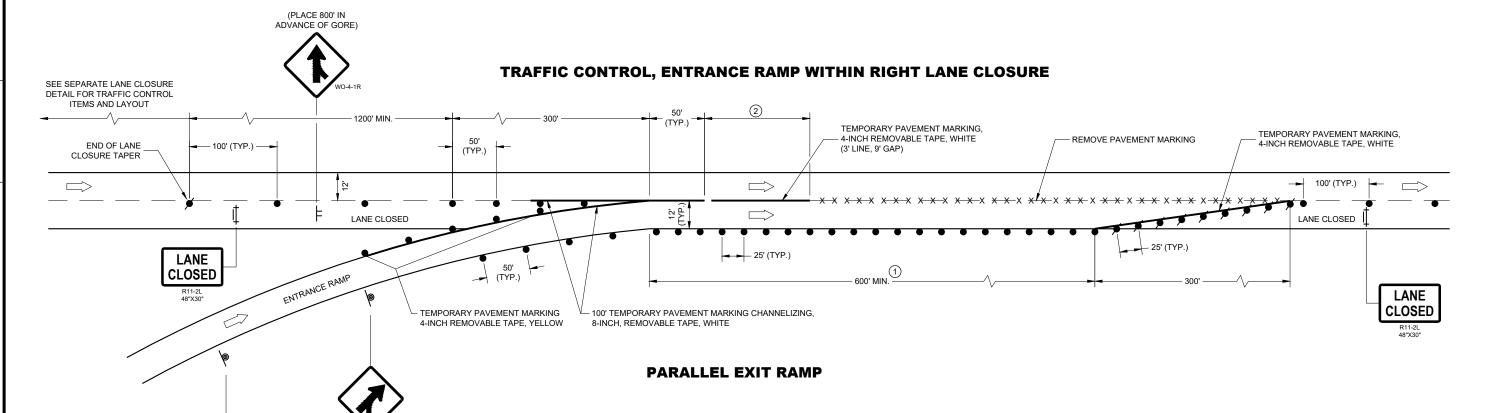
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- (1) EXTEND THE LENGTH OF THE MERGE ARE IF THE ENTERING (DESIGN) SPEED IS LESS THAN 50MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.
- (2) END TEMPORARY MARKING AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.



TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 May 2019
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER

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Traffic Control, Parallel Entrance Ramp within Right Lane Closure

References:

Part VI, Manual on Uniform Traffic Control Devices (MUTCD)

FDM 11-50-1

FDM 11-50-20

Bid items associated with this drawing:

ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
643.0300	Traffic Control Drums	DAY
643.0420	Traffic Control Barricades Type III	DAY
643.0715	Traffic Control Warning Lights Type C	DAY
643.0900	Traffic Control Signs	DAY
643.0910	Traffic Control Covering Signs Type I	EACH
643.0920	Traffic Control Covering Signs Type II	EACH
646.1005	Marking Line Paint 4-Inch	LF
646.9000	Marking Removal Line 4-Inch	LF
646.9100	Marking Removal Line 8-Inch	LF
649.0105	Temporary Marking Line Paint 4-Inch	LF
649.0120	Temporary Marking Line Epoxy 4-Inch	LF
649.0150	Temporary Marking Line Removable tape 4-Inch	LF
649.0155	Temporary Marking Line Removable Contrast Tape 4-Inch	LF
649.0250	Temporary Marking Line Removable Tape 8-Inch	LF
649.0255	Temporary Marking Line Removable Contrast Tape 8-Inch	LF

Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 15D3	Traffic Control I	ane Closure	Speeds Greater tha	n 40 M P H	with Barrier
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SDD 15D12 Traffic Control, Lane Closure, Speeds Greater than 40 M.P.H.

SDD 15D14 Traffic Control, Two Lane Closure on Freeway or Expressway, Short-Term (Less than 24

Hours)

Design Notes:

Use a separate detail sheet to show the lane closure signing, taper and other traffic control. Standard Detail Drawings listed above may be appropriate.

In the gore between the entrance ramp and the mainline, Flexible Tubular Markers may be substituted for drums to improve visibility for traffic merging from the entrance ramp if the lane closure will be in place for 7 or more continuous days and nights. Consider the effects on visibility that are caused by drums, the ramp geometrics, and the relative elevations of the ramp approach and mainline. If Flexible Tubular Markers are to be used, indicate the appropriate entrance ramp gore locations in the Miscellaneous Quantities table. Bid items 643.0500 and 643.0600 and SDD 15C11 are then required.

Removing existing pavement markings and placing temporary markings are typically needed only if the lane closure will be in place for 4 or more continuous days and nights. For shorter periods, the designer may specify marking removal and temporary markings if desired. The temporary marking items 649.0100 and 649.0701 may be used instead of removable tape if the temporary marking is not being placed on permanent pavement, especially if there will not be revisions to the marking for a subsequent stage on the same pavement surface.

Cover or remove existing and permanent signs that prevent conflicts with detours or other traffic operations.

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE. MAY BE MOUNTED ON PORTABLE SUPPORTS.

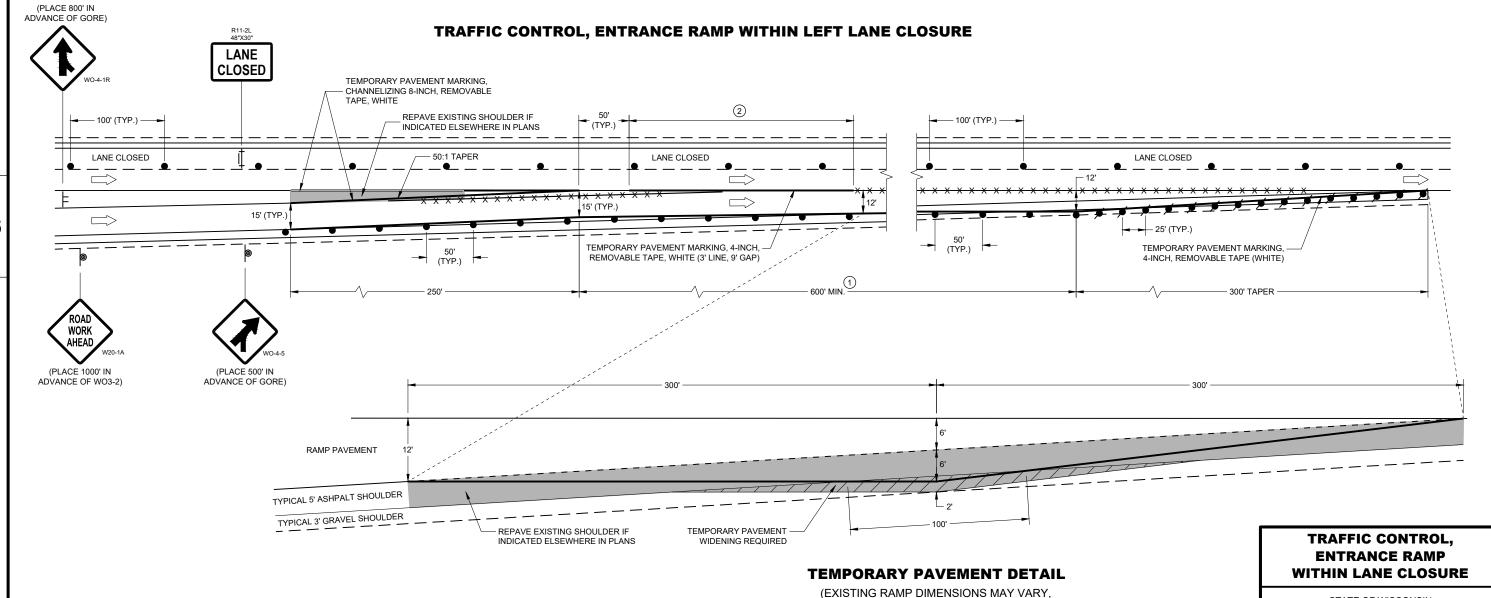
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS /OR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① EXTEND THE LENGTH OF THE MERGE AREA IF THE ENTERING (DESIGN) SPEED OF THE RAMP IS LESS THAN 50 MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.
- (2) END TEMPORARY MARKING AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.



ADJUST TEMPORARY PAVEMENT ACCORDINGLY)

SDD 15D15 - 05I

D 15D15 - 05

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke

WORK ZONE ENGINEER

APPROVED

May 2019 DATE

Standard Detail Drawing 15D15 (sheet b)

May 2019

Traffic Control, Entrance Ramp within Left Lane Closure

References:

Part VI, Manual on Uniform Traffic Control Devices (MUTCD)

FDM 11-50-1 FDM 11-50-20

Bid items associated with this drawing:

ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
465.0125	Asphaltic Surface Temporary	TON
643.0300	Traffic Control Drums	DAY
643.0420	Traffic Control Barricades Type III	DAY
643.0715	Traffic Control Warning Lights Type C	DAY
643.0900	Traffic Control Signs	DAY
643.0910	Traffic Control Covering Signs Type I	.EACH
643.0920	Traffic Control Covering Signs Type II	.EACH
646.1005	Marking Line Paint 4-Inch	LF
646.9000	Marking Removal Line 4-Inch	LF
646.9100	Marking Removal Line 8-Inch	LF
649.0105	Temporary Marking Line Paint 4-Inch	LF
649.0120	Temporary Marking Line Epoxy 4-Inch	LF
649.0150	Temporary Marking Line Removable tape 4-Inch	LF
649.0155	Temporary Marking Line Removable Contrast Tape 4-Inch	LF
649.0250	Temporary Marking Line Removable Tape 8-Inch	LF
649.0255	Temporary Marking Line Removable Contrast Tape 8-Inch	LF

Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 15D3	Troffic Control	Lana Clasura	Speeds Greater t	han 10 M D U	with Darrier
500 1503	Traffic Control	i ane Ciosure	Speeds Greater t	nan 40 M P H	with Barrier

SDD 15D12 Traffic Control, Lane Closure, Speeds Greater than 40 M.P.H.

SDD 15D14 Traffic Control, Two Lane Closure on Freeway or Expressway, Short-Term (Less than 24

Hours)

Design Notes:

Develop project specific plans for the temporary pavement when required.

Use a separate detail sheet to show the lane closure signing, taper and other traffic control. Standard Detail Drawings listed above may be appropriate.

In the gore between the entrance ramp and the mainline, Flexible Tubular Markers may be substituted for drums to improve visibility for traffic merging from the entrance ramp if the lane closure will be in place for 7 or more continuous days and nights. Consider the effects on visibility that are caused by drums, the ramp geometrics, and the relative elevations of the ramp approach and mainline. If Flexible Tubular Markers are to be used, indicate the appropriate entrance ramp gore locations in the Miscellaneous Quantities table. Bid items 643.0500 and 643.0600 and SDD 15C11 are then required.

Removing existing pavement markings and placing temporary markings are typically needed only if the lane closure will be in place for 4 or more continuous days and nights. For shorter periods, the designer may specify marking removal and temporary markings if desired. The temporary marking items 649.0100 and 649.0701 may be used instead of removable tape if the temporary marking is not being placed on permanent pavement, especially if there will not be revisions to the marking for a subsequent stage on the same pavement surface.

Cover or remove existing and permanent signs that prevent conflicts with detours or other traffic operations.

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

(PLACE 500' IN

ADVANCE OF WO3-2)

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

FLAGS, 16" X 16" MIN., ORANGE

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

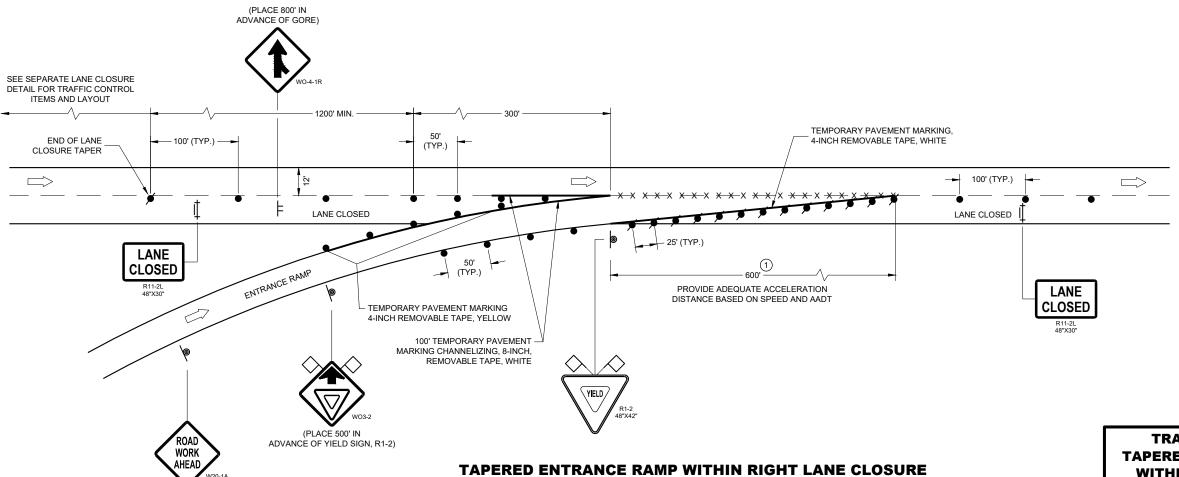
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ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.



TRAFFIC CONTROL, **TAPERED ENTRANCE RAMP** WITHIN LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

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Traffic Control, Tapered Entrance Ramp within Right Lane Closure

References:

Part VI, Manual on Uniform Traffic Control Devices (MUTCD)

FDM 11-50-1

FDM 11-50-20

Bid items associated with this drawing:

	•	
ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
643.0300	Traffic Control Drums	DAY
643.0420	Traffic Control Barricades Type III	DAY
643.0715	Traffic Control Warning Lights Type C	DAY
643.0900	Traffic Control Signs	DAY
643.0910	Traffic Control Covering Signs Type I	EACH
643.0920	Traffic Control Covering Signs Type II	EACH
646.1005	Marking Line Paint 4-Inch	
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649.0255	Temporary Marking Line Removable Contrast Tape 8-Inch	LF

Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 15D3 Traffic Control, Lane Closure, Speeds Greater than 40 M.P.H. with Barrier

SDD 15D12 Traffic Control, Lane Closure, Speeds Greater than 40 M.P.H.

SDD 15D14 Traffic Control, Two Lane Closure on Freeway or Expressway, Short-Term (Less than 24

Hours)

Design Notes:

Use a separate detail sheet to show the lane closure signing, taper and other traffic control. Standard Detail Drawings listed above may be appropriate.

In the gore between the entrance ramp and the mainline, Flexible Tubular Markers may be substituted for drums to improve visibility for traffic merging from the entrance ramp if the lane closure will be in place for 7 or more continuous days and nights. Consider the effects on visibility that are caused by drums, the ramp geometrics, and the relative elevations of the ramp approach and mainline. If Flexible Tubular Markers are to be used, indicate the appropriate entrance ramp gore locations in the Miscellaneous Quantities table. Bid items 643.0500 and 643.0600 and SDD 15C11 are then required.

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Cover or remove existing and permanent signs that prevent conflicts with detours or other traffic operations.

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGS, 16" X 16" MIN., ORANGE
 - DIRECTION OF TRAFFIC

GENERAL NOTES

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YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

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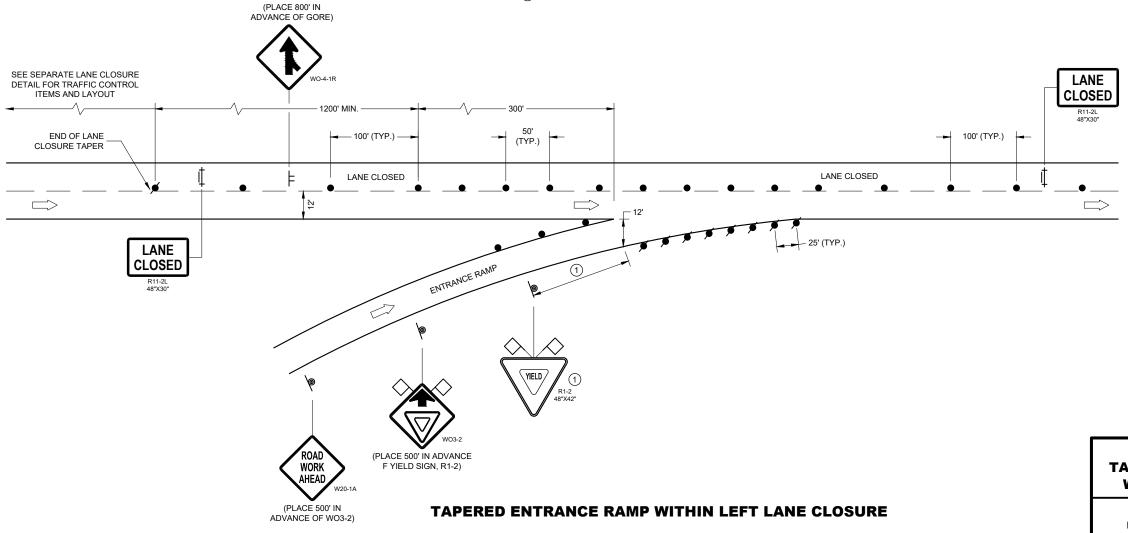
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WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) PLACE YIELD SIGN TO PROVIDE ADEQUATE SIGHT DISTANCE AND ACCELERATION DISTANCE



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019
DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 0

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Traffic Control, Tapered Entrance Ramp within Left Lane Closure

References:

Part VI, Manual on Uniform Traffic Control Devices (MUTCD)

FDM 11-50-1

FDM 11-50-20

Bid items associated with this drawing:

ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
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Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 15D3	Traffic Control I	ane Closure	Speeds Greater tha	n 40 M P H	with Barrier
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SDD 15D12 Traffic Control, Lane Closure, Speeds Greater than 40 M.P.H.

SDD 15D14 Traffic Control, Two Lane Closure on Freeway or Expressway, Short-Term (Less than 24

Hours)

Design Notes:

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Cover or remove existing and permanent signs that prevent conflicts with detours or other traffic operations.

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

▼ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

X X X REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

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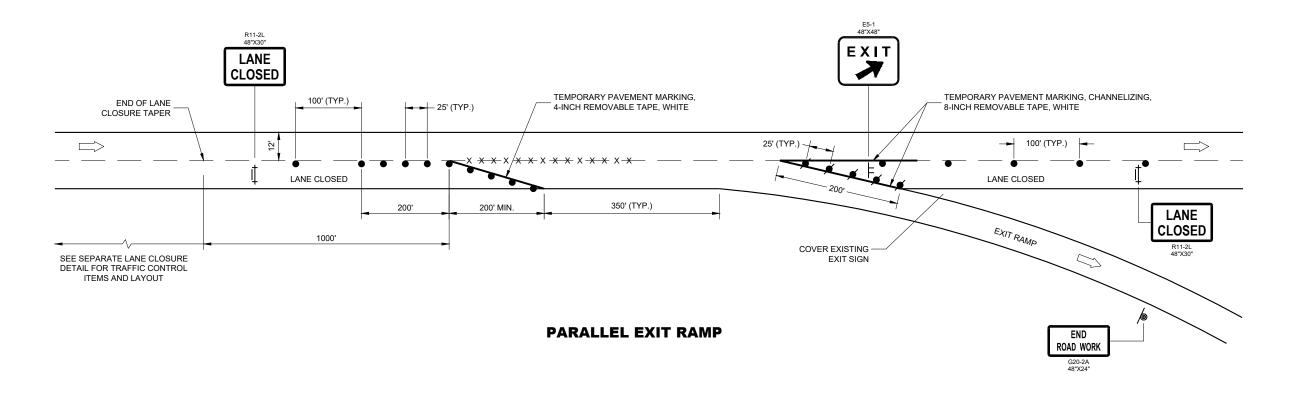
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ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019

DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

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Standard Detail Drawing 15D15 (sheet e)

May 2019

Traffic Control, Parallel Exit Ramp within Lane Closure

References:

Part VI, Manual on Uniform Traffic Control Devices (MUTCD)

FDM 11-50-1

FDM 11-50-20

Bid items associated with this drawing:

	· ·	
ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
643.0300	Traffic Control Drums	DAY
643.0420	Traffic Control Barricades Type III	DAY
643.0715	Traffic Control Warning Lights Type C	DAY
643.0900	Traffic Control Signs	DAY
643.0910	Traffic Control Covering Signs Type I	EACH
643.0920	Traffic Control Covering Signs Type II	EACH
646.1005	Marking Line Paint 4-Inch	
646.9000	Marking Removal Line 4-Inch	
646.9100	Marking Removal Line 8-Inch	
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649.0250	Temporary Marking Line Removable Tape 8-Inch	LF
649.0255	Temporary Marking Line Removable Contrast Tape 8-Inch	LF

Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 15D3	Traffic Control I	ane Closure	Speeds Greater than	an 40 M P H	with Rarrier
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SDD 15D12 Traffic Control, Lane Closure, Speeds Greater than 40 M.P.H.

SDD 15D14 Traffic Control, Two Lane Closure on Freeway or Expressway, Short-Term (Less than 24

Hours)

Design Notes:

Use a separate detail sheet to show the lane closure signing, taper and other traffic control. Standard Detail Drawings listed above may be appropriate.

Removing existing pavement markings and placing temporary markings are typically needed only if the lane closure will be in place for 4 or more continuous days and nights. For shorter periods, the designer may specify marking removal and temporary markings if desired. The temporary marking items 649.0100 and 649.0701 may be used instead of removable tape if the temporary marking is not being placed on permanent pavement, especially if there will not be revisions to the marking for a subsequent stage on the same pavement surface.

If permanent interchange guide signs will not be in place on the mainline during the project, provide for temporary interchange guide signs. Consult with Region Traffic Unit. The E5-1 Exit sign may be supplemented by a plaque indicating the exit number. The exit number plaque may be desirable at complex interchanges where there are multiple exits within a short distance. Special temporary interchange guide signs and exit number plaques are paid as Temporary Traffic Control Signs Fixed Message (Bid Item Number 643.1000) and should be shown on a traffic control overview sheet. Plan sheets detailing the special sign layouts are also required.

Cover or remove existing and permanent signs that prevent conflicts with detours or other traffic operations.